| Ref # | Hits | Search Query | DBs | Defáult Operator | Plurals | Time Stamp |
|----------|--------|--------------------------------------------------------------|--------------------|---------------------|---------|------------------|
| S1 | 9653 | photopolymer | US-PGPUB; USPAT | AND | ON | 2007/06/21 08:05 |
| S2 | 203750 | cured | US-PGPUB; USPAT | AND | ON | 2007/06/21 08:06 |
| S3 | 3506 | S1 and S2 | US-PGPUB; USPAT | AND | ON | 2007/06/21 08:06 |
| S4 | 148210 | lcd | US-PGPUB; USPAT | AND | ON | 2007/07/03 15:41 |
| S5 | 244 | S3 and S4 | US-PGPUB; USPAT | AND | ON | 2007/06/21 08:06 |
| S7 | 150 | photopolymer near3 mixture | US-PGPUB; USPAT | AND | ON | 2007/07/03 15:43 |
| S8 | 11 | S7 and (surface adj energy) | US-PGPUB; USPAT | AND | ON | 2007/06/27 08:51 |
| S9 | 158808 | patterning or embossing | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:38 |
| S11 | 18440 | Curing and S9 | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:39 |
| S13 | 575 | (428/1.2\$).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 10:40 |
| S14 | 2657 | (428/1.\$2).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 10:42 |
| S16 | 158808 | patterning or embossing | US-PGPUB; USPAT | ANÓ | ON | 2007/06/28 10:46 |
| S17 | 371 | S14 and S16 | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:52 |
| S18. | 50,773 | S16 and polymer | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:46 |
| S19 | 26084 | masking and S16 | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:52 |
| S20 | 8126 | polymer and S19 | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:53 |
| S21 | 2561 | photo and S20 | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:54 |
| S22 | 293 | 428/1.2.ccls. | US-PGPUB; USPAT | AND | ON | 2007/06/28 10:57 |
| S23 | 264 | S22 and polymer | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:12 |
| S25 | 2108 | (orient\$6 or align\$5) same (liquid adj crystal) same photo | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:15 |

| S26 | 256 | (orient\$6 or align\$5) same (liquid adj crystal) same layer same photo same polymer and (stamp or emboss or pattern) | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:18 |
|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|------------------|
| S28 | 148 | (orient\$6 or align\$5) same (liquid adj crystal) same layer same photo same polymer and (stamp or emboss or pattern or mold) same method | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:25 |
| S29 | 50 | (("20010050729") or ("20030015110") or ("20030015110") or ("20030141885") or ("20030178750") or ("20040090573") or ("20040114204") or ("20050018124") or ("20050018124") or ("200500174340") or ("20050233252") or ("20050259216") or ("20060035086") or ("20060078638") or ("200600114344") or ("20060279943") or ("20070046897") or ("20070047037") or ("20070047037") or ("4201442") or ("4393131") or ("4506004") or ("4528259") or ("4544626") or ("4556627") or ("4596839") or ("5477347") or ("5396839") or ("5477347") or ("5754514") or ("5928819") or ("6525413") or ("6558606") or ("6574523") or ("6608661") or ("6788367") or ("6608661") or ("6788367") or ("6820550") or ("6788367") or ("6912038") or ("7112359") or ("7227674")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 12:36 |
| . S30 | 2 | (("5844643") or ("4521351")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 12:37 |
| S32 | 645 | liquid adj crystal alignment layer photopolymer | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:50 |
| S33 | 5618 | photopolymer mixture | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:52 |
| S34 | 107 | photopolymer mixture homeotropic | US-PGPUB; USPAT | AND | ON | 2007/06/28 12:53 |

| S35 | 2,85 | emboss photopolymer | US-PGPUB; USPAT | AND | ON | 2007/06/28 13:15 |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|------------------|
| S36 | 231 | emboss photopolymer cur\$4 | US-PGPUB; USPAT | AND | ON | 2007/06/28 13:16 |
| S37 | 126 | emboss photopolymer curing | US-PGPUB; USPAT | AND | ON | 2007/06/28 13:16 |
| S38 | 1 | ("5575878").PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 14:42 |
| S39 | 1 | ("6027595").PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 14:45 |
| S40 | 1029 | (156/275.5).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/06/28 14:52 |
| S41 | 2 | S40 and photopolymer mixture and (emboss or embossed or embossing) | US-PGPUB; USPAT | AND | ON | 2007/06/28 14:53 |
| S42 | 11 | (US-20050018124-\$ or US-20070128378-\$ or US-20060051524-\$ or US-20050179003-\$ or US-20050150589-\$ or US-20040256352-\$).did. or (US-4087182-\$ or US-4195997-\$ or US-5575878-\$ or US-6027595-\$ or US-5552009-\$).did. | US-PGPUB; USPAT | AND | ON | 2007/06/28 15:07 |
| S43 | 3 | S42 homeotropic | US-PGPUB; USPAT | AND | ON | 2007/06/28 15:16 |
| S44 | 20 | photopolymer same viscosity same refractive adj index | US-PGPUB; USPAT | AND | ON | 2007/06/28 16:03 |
| S45 | 4 | photopolymer same viscosity same refractive adj index and immiscible | US-PGPUB; USPAT | AND | ON | 2007/06/28 16:04 |
| S46 | 44 | photopolymer viscosity refractive adj index and immiscible | US-PGPUB; USPAT | AND | ON | 2007/06/28 16:04 |
| S50 | 1410 | (reduce\$2 or lower) with surface adj energy and (acrylate or (polydimethyl adj siloxane)) | US-PGPUB; USPAT | AND | ON | 2007/07/02 16:51 |
| S52 | 55 | (reduce\$2 or lower) with surface adj energy same (acrylate or (polydimethyl adj siloxane)) same polymer | US-PGPUB; USPAT | AND | ON | 2007/07/03 08:41 |
| S53 | 11 | surface adj energy same (acrylate and (polydimethyl adj siloxane)) | US-PGPUB; USPAT | AND | ON | 2007/07/03 07:26 |
| S54 | 150 | photopolymer near3 mixture | US-PGPUB; USPAT | AND | ON | 2007/07/03 15:44 |
| S55 | 11 | S54 and surface adj energy | US-PGPUB; USPAT | AND | ON | 2007/07/03 15:46 |

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| S82 | 106 | alignment adj (film or grating or layer) and low near10 (surface adj energy) and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/09/12 09:57 |
|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----|-----|------------------|
| S85 | 1 | ("6249332").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/12 10:59 |
| S86 | 388 | bistable and grating and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/09/12 11:01 |
| S88 | 117 | bistable and grating and liquid adj crystal and homeotropic | US-PGPUB; USPAT | AND | ON | 2007/09/12 11:02 |
| S89 | 430 | bistable and (grating or alignment adj film or alignment layer) and liquid adj crystal and homeotropic | US-PGPUB; USPAT | AND | ON | 2007/09/12 11:03 |
| S90 | 70 | bistable and (grating or alignment adj film or alignment layer) and liquid adj crystal and homeotropic and (low near10 energy) | US-PGPUB; USPAT | AND | ON | 2007/09/12 11:03 |
| S11 0 | 1 | WO02/44801.ptpn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2007/09/12 13:38 |
| S11 2 | . 1 | ("6455140").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/12 13:43 |
| S11 3 | 37 | liquid adj crystal and homeotropic and polymer and low near10 (surface adj energy) | US-PGPUB; USPAT | AND | ON | 2007/09/12 15:01 |
| S11 4 | 43 | liquid adj crystal and homeotropic and low near10 (surface adj energy) | US-PGPUB; USPAT | AND | ON | 2007/09/12 15:15 |
| S11 5 | 4 | liquid adj crystal and (vertical adj alignment or vertically adj aligned) same low near10 (surface adj energy) | US-PGPUB; USPAT | AND | ON | 2007/09/12 15:15 |
| S11 6 | . 1 | WO00/59966.ptpn. | US-PGPUB; USPAT; EPO | AND | ON | 2007/10/15 08:34 |
| S11 7 | 1 | ("5844643").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/12 15:51 |
| S11 8 | 148 | liquid adj crystal same alignment and low near5 (surface adj energy) | US-PGPUB; USPAT | AND | ON | 2007/09/12 15:54 |
| S11 9 | 127 | liquid adj crystal same alignment and low near5 (surface adj energy) and (polymer or oligomer or monomer) | US-PGPUB; USPAT | AND | ON | 2007/09/12 16:20 |

| S12 0 | | liquid adj crystal same alignment and low near5 (surface adj energy) and (polymer or oligomer or monomer) and (428/1.2.ccls. or 428/1.23.ccls.) | US-PGPUB; USPAT | AND | ON | 2007/09/12 16:20 |
|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|-----|------------------|
| S12 2 | 715 | liquid adj crystal and low near5 (surface adj energy) and (polymer or oligomer or monomer) | US-PGPUB; USPAT | AND | ON | 2007/09/12 16:20 |
| S12 4 | 355 | liquid adj crystal and low near5 (surface adj energy) and (polymer or oligomer or monomer) and (acrylate or dimethyl adj siloxane) | US-PGPUB; USPAT | AND | ON | 2007/09/12 16:22 |
| S12 5 | 112 | liquid adj crystal and low near5 (surface adj energy) and (polymer or oligomer or monomer) and (acrylate or dimethyl adj siloxane) and refractive and viscosity | US-PGPUB; USPAT | AND | ON | 2007/09/12 16:23 |
| S12 6 | 6 | low near3 (surface adj energy) same polymer and liquid adj crystal and (dimethyl adj siloxane) | US-PGPUB; USPAT | AND | ON | 2007/09/12 17:16 |
| S12 7 | 62 | low near3 (surface adj energy) same polymer and liquid adj crystal and siloxane | US-PGPUB; USPAT | AND | ON | 2007/09/12 17:16 |
| S12 8 | 1 | ("6919404").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/13 08:57 |
| S12 9 | 3 | WO02/08825.ptpn. | US-PGPUB; USPAT; EPO | AND | ON | 2007/10/15 08:36 |
| S13 0 | 2 | PCT/GB01/03168.pct. | US-PGPUB; USPAT; EPO | AND | ON | 2007/10/15 08:38 |
| S13 1 | 2 | PCT/EP01/13584.pct. | US-PGPUB; USPAT; EPO | AND | ON | 2007/10/15 08:38 |
| S13 . | 17 | alignment adj (film or grating or layer) and low near10 (surface adj energy) and liquid adj crystal and bistable | US-PGPUB; USPAT | AND | ON | 2007/10/23 17:01 |
| S13 5 | 4 | "5384067".pn. or "5453863".pn. or "6172720".pn. or "5661533".pn. | US-PGPUB; USPAT | AND | ON | 2007/10/23 17:06 |
| S13 6 | 2 | alignment adj (film or grating or layer) and low near10 (surface adj energy) and liquid adj crystal and bistable near5 zenith\$3 | US-PGPUB; USPAT | AND | ON | 2007/10/23 17:07 |
| S13 7 | 53 | alignment adj (film or grating or layer) and liquid adj crystal and bistable near5 zenith\$3 | US-PGPUB; USPAT | AND | ON | 2007/10/23 17:08 |

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| S15 2 | 39 | wood.in. and (liquid adj crystal).ti. | EPO; DERWENT | AND | ON | 2007/10/23 18:03 |
| S15 3 | 1 | Wo-200208825-\$.did. | EPO; DERWENT | AND | ON | 2007/10/23 18:04 |
| S15 4 | 644 | surface adj energy same (acrylate or (polydimethyl adj siloxane)) | US-PGPUB; USPAT | AND | ON | 2007/10/24 08:40 |
| S15 5 | 77 | (lower or reduce) near4 surface adj energy same (acrylate or (polydimethyl adj siloxane)) | US-PGPUB; USPAT | AND | ON | 2007/10/24 08:41 |
| S15 6 | 2465 | (alignment adj layer) and refractive index | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:13 |
| S15 7 | 599 | (alignment adj layer) and refractive index and viscosity | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:13 |
| S15 8 | 561 | (alignment adj layer) and refractive index and viscosity and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:15 |
| S15 9 | 11 | (alignment adj layer) and refractive index and viscosity and liquid adj crystal and immiscible | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:15 |
| S16 1 | 46 | (alignment or orientation).ti. and refractive index and viscosity and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:16 |
| S16 2 | 330 | (refractive adj index) near10 (match\$2 or "same") same (alignment or orientation) same (liquid adj crystal) | US-PGPUB; USPAT | AND. | ON | 2007/10/24 09:28 |
| S16 3 | 488 | (refractive adj index) near10 (equal or match\$2 or "same") same (alignment or orientation) same (liquid adj crystal) | US-PGPUB; USPAT | AND | ON | 2007/10/24 09:43 |
| S16 4 | 2716 | (refractive adj index) same (alignment or orientation) and particle | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:29 |
| S16 5 | 390 | (refractive adj index) same (alignment or orientation) adj (layer or film) and particle | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:30 |
| S16 7 | . 4 | (refractive adj index) near10 "1. 3"\$1 same (alignment or orientation) adj (layer or film) | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:32 |
| S16 8 | 97 | (refractive adj index) near10 "1."\$2 same (alignment or orientation) adj (layer or film) | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:33 |
| S16 9 | 1122 | (alignment or orientation).ab. and particles and refractive adj index | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:36 |
| S17 0 | 718 | (alignment or orientation).ab. and particles and refractive adj index and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:36 |

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| S17 | 595 | (428/1.2\$).CCLS. | US-PGPUB; | OR | OFF | 2007/10/24 10:38 |
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| 1 | | | USPAT | | | |
| S17 2 | 31 | (alignment or orientation).ab. and particles and refractive adj index and liquid adj crystal and S171 | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:38 |
| S17 6 | 67 | 428/1.2\$.ccls. and particles and (refractive or refraction) | US-PGPUB; USPAT | AND | ON | 2007/10/24 10:43 |
| S17 9 | 149 | 428/1.2\$ and (refractive adj index) | US-PGPUB; USPAT | AND | ON | 2007/10/24 11:18 |
| S18 2 | 1 | "6249332".pn. | US-PGPUB; USPAT | AND | ON | 2007/10/24 11:27 |
| S18 6 | 416 | liquid adj crystal and (immiscible or imiscible) and polymer and ((refractive index) or (index of refraction)) and viscosity | US-PGPUB; USPAT | AND | ON | 2007/10/24 11:51 |
| S18 8 | 6241 | particles and refractive adj index and liquid adj crystal and polymer | US-PGPUB; USPAT | AND | ON | 2007/10/24 13:28 |
| S18 9 | 1452 | particles and refractive adj index and liquid adj crystal and "428". clas. | US-PGPUB; USPAT | AND | ON | 2007/10/24 13:28 |
| S19 2 | 252 | particles and refractive adj index near ("1."\$2) and liquid adj crystal and "428".clas. and viscosity and optical | US-PGPUB; USPAT | AND | ON | 2007/10/24 13:30 |
| S19 9 | 165 | low near3 refraction near5 polymer | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:12 |
| S20 1 | 56 | low near3 refraction near5 polymer and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:12 |
| S20 3 | 473 | low near3 refractive near5 (polymer or monomer) and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:43 |
| S20 4 | 260 | low near3 refractive near5 (polymer or monomer) and liquid adj crystal and viscosity | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:44 |
| S20 5 | 236 | low near3 refractive near5 polymer and liquid adj crystal and viscosity | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:44 |
| S20 6 | 183 | low near3 refractive near5 polymer and liquid adj crystal and viscosity and particles | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:47 |
| S20 7 | 1 | 09/618804.app. | US-PGPUB; USPAT | AND | ON | 2007/10/24 15:53 |
| S20 8 | 11 | surface adj energy near20 gradient and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 16:24 |
| S20 9 | 563 | surface adj energy near10 (different or varying or higher or lower) and liquid adj crystal | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:14 |

| S21 0 | 359 | alignment adj film near20 protective | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:21 |
|----------|-----|----------------------------------------------------------------------------------------------------------------------|--------------------|-----|----|------------------|
| S21 1 | 0 | alignment adj film near20 removable near5 protective | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:21 |
| S21 4 | 1 | 11/193378.app. | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:36 |
| S21 6 | 302 | surface near4 energy and homeotropic and liquid adj crystal and (alignment or orientation) | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:54 |
| S21 8 | 285 | surface near3 energy and homeotropic and liquid adj crystal and (alignment or orientation) | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:54 |
| S21 9 | 40 | surface near3 energy near10 substrate and homeotropic and liquid adj crystal and (alignment or orientation) | US-PGPUB; USPAT | AND | ON | 2007/10/24 17:55 |